

ABSTRACT

Described herein is a technique for reducing the effects of crosstalk between adjacent signal lines of a data path. The data path is formed by multiple signal lines arranged adjacent each other and traversing multiple segments. The signal lines are transposed between segments in a manner that is chosen to reduce differences in interline couplings between different pairs of the signal lines. The interline coupling of a pair of signal lines is represented as a function of coupling terms. A coupling term corresponds to each segment of a pair of signal lines, and is a function of the distance between the signal lines over that segment. Prior to transmitting a digital signal over the data path, the digital signal is encoded to reduce variations over time in a collective signal level of the digital signal.